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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/576,108	07/17/2006	Oddvin Reiso	2006_0560A	1717	
513 7590 07/09/2009 WENDEROTH, LIND & PONACK, L.L.P. 1030 15th Street, N.W.,			EXAMINER		
			YANG, JIE		
Suite 400 East Washington, DC 20005-1503		ART UNIT	PAPER NUMBER		
		1793			
			MAIL DATE	DELIVERY MODE	
			07/09/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application	on No.	Applicant(s)	
Office Action Summary		10/576,10	08	REISO ET AL.	
		Examiner		Art Unit	
		JIE YANG		1793	
Period fo	The MAILING DATE of this communication Reply	on appears on the	e cover sheet with the d	correspondence ad	ddress
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR FOR HEVER IS LONGER, FROM THE MAILING IN THE MAILING	NG DATE OF TH CFR 1.136(a). In no evo tion. period will apply and wi y statute, cause the app	IIS COMMUNICATION ent, however, may a reply be tin II expire SIX (6) MONTHS from lication to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).	•
Status					
1) 又	Responsive to communication(s) filed on	10 March 2009			
·	_	This action is n	on-final.		
3)	<i>'</i> —	_		secution as to the	e merits is
-,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposit	on of Claims				
4)🖂	Claim(s) <u>5-8</u> is/are pending in the applica	ation.			
	4a) Of the above claim(s) is/are withdrawn from consideration.				
	Claim(s) is/are allowed.				
-	Claim(s) <u>5-8</u> is/are rejected.				
	Claim(s) is/are objected to.				
-	Claim(s) are subject to restriction	and/or election re	equirement.		
	on Papers				
	The specification is objected to by the Exa	aminer			
•	The drawing(s) filed on is/are: a)		Objected to by the l	Examiner	
.0/			-		
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
	2) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:				
۵)	1. Certified copies of the priority documents have been received.				
	 1. Certified copies of the priority documents have been received in Application No 				
	Copies of the certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage				
	application from the International Bureau (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list of the certified copies not received.					
A44	W-)				
Attachmen 1) Notice	t(s) e of References Cited (PTO-892)		4) Interview Summary	(PTO-413)	
	e of References Cited (P10-692) e of Draftsperson's Patent Drawing Review (PTO-94	48)	Paper No(s)/Mail Da	ate	
3) 🔲 Infor	mation Disclosure Statement(s) (PTO/SB/08)	•	5) Notice of Informal F	Patent Application	
Pape	Paper No(s)/Mail Date 6) L Other:				

DETAILED ACTION

Claims 1-4 are cancelled; claims 5-8 are added as new claims; and 5-8 are pending in application.

Status of the Precious Rejection

The previous rejection of claims 1-4 under 35 U.S.C. 112, second paragraph as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention has been withdrawn since claims 1-4 have been cancelled in view of the amendment filed on 3/10/09.

The previous rejection of claims 1-4 under 35 U.S.C. 103(a) as being unpatentable over Shibata (JP 60204857, thereafter JP'857) has been withdrawn since claims 1-4 have been cancelled in view of the amendment filed on 3/10/09.

The previous rejection of claims 1-4 under 35 U.S.C. 103(a) as being unpatentable over Parson et al (US 6,440,359 B1, thereafter, US'359) in view of Ohyama et al (US 6,355,090 B1, thereafter US'090) has been withdrawn since claims 1-4 have been cancelled in view of the amendment filed on 3/10/09.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 5-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shibata (JP 60204857, thereafter JP'857).

Regarding the preamble limitation of "useful for extrusion purpose" in claim 5, which is recognized as an intended use of the aluminum base alloy, the limitation does not add patentable weight for the instant process claims. See MPEP 2111.02 II.

Regarding claims 5-7, JP'857 teaches an Al alloy with Mg and Si for extrusion application (Abstract of JP'857). The comparisons of compositions between the instant invention and JP'857 are listed in following table. All of the composition ranges disclosed by JP'857 (Abstract, claims 1-2, and discussions in page 315 Col.2, 5th paragraph of JP'875) overlap the composition ranges of the instant invention, which is a prima facie case of obviousness. It would have been obvious to one of ordinary skill in the art at the time the invention was made to select the claimed compositions Mg, Si, Mn, S, Cr, Zn, Cu, Fe, and Al as recited in the instant claims 5-7 from the composition disclosed by JP'857 because JP'857 discloses the same utility throughout the disclosed ranges. SEE MPEP 2144.05 I. JP'857 teaches adding Ti (0-1wt%) and/or B (0-1wt%) as grain refining agent and including unintentional impurities (Abstract of JP'857), which reads on the limitation of in adding grain refining elements and incidental impurities as recited in the

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instant claim 5. The composition range of Ti and/or B of JP'857's alloy overlaps the range of up to 0.1wt% grain refining elements as recited in the instant claim 5.

Element	From instant Claim 5-7	JP'857	Overlapping range
	(in wt%)	(in wt%)	(in wt%)
Mg	0.3-0.5	0-10	0.3-0.5
Si	0.35-0.6	0-11.6	0.35-0.6
Mn	0.02-0.08 (claim 5);	0-10	0.02-0.08 (claim 5);
	0.03-0.06 (claim 6)		0.03-0.06 (claim 6)
Cr	0.05	0-1	0.05
Zn	0.15	0-15	0.15
Cu	0.1	0-10	0.1
Fe	0.08-0.28 (claim 5);	0-10	0.08-0.28 (claim 5);
	0.18-0.25 (claim 7)		0.18-0.25 (claim 7)
Al	Balance	Balance	Balance

Regarding claim 8, the claim is written in the product-by-process format. There is no evidence that the claimed process limitation would render the claimed product unobvious over the aluminum alloy of JP'857. See MPEP 2113.

Claims 5-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Parson et al (US 6,440,359 B1, thereafter, US'359) in view of Ohyama et al (US 6,355,090 B1, thereafter US'090).

Regarding claims 5-7, US'359 teaches an aluminum alloy of composition and incidental impurities up to 0.05 each 0.15 total, which can be extruded at high speed to provide extruded

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section which meet T5 and T6 strength requirements (Abstract of US'359). The comparisons of compositions between the instant invention and JP'359 are listed in following table. The major composition ranges disclosed by JP'359 (Table 1, claims, and examples of JP'359) overlap the composition ranges of the instant invention. US'359 teaches optional adding Ti (0.007-0.01wt%) and B (0.001wt%) as grain refiners (Examples tables 1-3 and claim 1 of US'359).

Element	From instant Claim 5-7	US'359	Overlapping range
	(in wt%)	(in wt%)	(in wt%)
Mg	0.3-0.5	0.2-0.34	0.3-0.5
Si	0.35-0.6	0.35-0.60	0.35-0.6
Mn	0.02-0.08 (claim 5);	0-0.15	0.02-0.08 (claim 5);
	0.03-0.06 (claim 6)		0.03-0.06 (claim 6)
Cr	0.05		
Zn	0.15	0.006007	
Cu	0.1	0-0.25	0.1
Fe	0.08-0.28 (claim 5);	0-0.35	0.08-0.28 (claim 5);
	0.18-0.25 (claim 7)		0.18-0.25 (claim 7)
Al	Balance	Balance	Balance

Still regarding claim 5, US'359 does not specify adding 0.05wt%Cr and 0.15wt%Zn in the alloy. US'090 teaches an aluminum alloy for automotive parts by extruded operation (Abstract, Col.11, lines 45-63, and table 3-4 of US'359). The major composition ranges disclosed by JP'090 (Col.2, line 39 to col.3, line 56, and claims 5-8 of JP'090) overlap the composition ranges of the instant invention. US'090 teaches adding 0.1 to

1.2wt% Zn and 0.01 to 0.2 wt% Cr in the aluminum alloy, which cover the 0.15wt% Zn and 0.05wt% Cr as recited in the instant claim 5. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to add proper amount of Cr and Zn as demonstrated by US'090 in the alloy of US'359 because US'090 teaches the proper amount of Zn can enhance the strength of an aluminum wrought alloy and the proper amount of Cr can contribute to improve bending property and toughness of the resultant alloy (Col.6, lines 44-63 of US'090).

Regarding claim 8, the claim is written in the product-by-process format. There is no evidence that the claimed process limitation would render the claimed product unobvious over the aluminum alloy of US'359 in view of US'090. See MPEP 2113. The Examiner further notes that US'359 specifies to perform the extrusion operation at temperature of 450°C (Col.7, lines 16-35 and Fig.14-15 of US'359), which is within the extrusion temperature range (430-510°C) as recited in the instant claim.

Response to Arguments

Applicant's arguments with respect to newly added claims 5-8 have been fully considered but they are not persuasive.

The Applicant argues JP'857 does not disclose or suggest all of the features of the present invention; Neither of US'359 or US'090 discloses or suggest selecting the presently claimed narrow Mn content of 0.02-0.08wt% in combination with a low content of Si and Mg, respectively, to obtain desired benefits of the present invention, for example, containing a certain amount of AlMnFeSi dispersoid particles. In response, as pointed in the rejection for claims of 5-8 above, JP'857 or US'359 in view of US'090 teaches aluminum alloy with composition ranges overlapping the composition ranges of the instant invention (US'359 teaches adding up to 0.15wt% Mn and narrow range 0.03-0.10 (table in col.2 of US'359), which overlapping 0.02-0.08 wt%Mn as recited in the instant claim 5), which is a prima facie case of obviousness. SEE MPEP 2144.05 I. The examiner notes that the asserted feature of "containing a certain amount of AlMnFeSi dispersoid particles" in the argument is not included in the instant claims.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jie Yang whose telephone number is 571-2701884.

The examiner can normally be reached on IFP.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 571-2721244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JΥ

/Roy King/ Supervisory Patent Examiner, Art Unit 1793